

OCASF RECOMMENDED CRITERIA FOR EXPOSURE OF PERSONNEL TO ATOMIC WEAPONS EFFECTS IN FUTURE CONTINENTAL US ATOMIC TESTS

1. Criteria for exposure of troops to atomic weapons effects.

a. Nuclear radiation (cumulative)

(1) Gamma

(a) Prompt - Ten roentgens

(b) Residual - Ten roentgens

(2) Neutron - Five rem

b. Blast (overpressure) - Five psi

c. Ground particle velocity - .2 fps

d. Thermal radiation - 0% casualties at $1\frac{1}{2}$ Cal/Cm², infinite visibility.

2. Troop positions for tower shots.

<u>Max Predicted KT Yield</u>	<u>Range Troops in Open</u>	<u>Range * Troops in trenches or fighting positions</u>
20 KT	6200 yds	2580 yds
30	7600	2720
40	8200	2810
50	9700	2860
60	10,500	2900

* Includes 750 yd additional safety factor.

3. Troops in tanks or covered armored vehicles in open for tower shots (assuming height of burst are such that no effective precursor results)

<u>Max Predicted KT Yield</u>	<u>Range *</u>
20 KT	2750 yds
30	3250
40	3300
50	3370
60	3440

Declassified by DNA, Chief, ISTS
and DA (M&RA) Letter, 21 Nov 94

Date: 2 Dec. 1994

The above distances can be reduced considerably for tanks by placing them in defilade or by so orienting them so that maximum armor faces the blast.

* Includes 750 yd additional safety factor.

4. For aircraft delivered weapons: add 1,000 yards to distances given in paragraphs 2 and 3 above.

INCLOSURE 3

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